

SITE: Florida Phosphate
BREAK: 17.8
OTHER: v. 18

January 11, 1978

Lloyd Godwin, Director
Florida Sheriff's Girls Villa
Post Office Box 1380
Bartow, Florida 33830



10517213

Dear Mr. Godwin:

The following data was obtained from designated various sampling points in homes located in Florida Sheriff's Girls Villa.

<u>LOCATION</u>	<u>NAME</u>	<u>TLD WORKING LEVEL AVERAGE</u>	<u>TRACK ETCH WORKING LEVEL AVERAGE</u>
70911	White Cottage	.007	.017
70912	Buena Vista Villa	.016	.045
70913	Dorista Villa	.035	.055
70914	Brickens House	.065	.098
70915	Pinellas Sunshine Village	.026	.052
70916	Main Office	.027	.039
71393	Godwin's House	.011	----

Two types of monitoring devices were used in the structures on the Florida Sheriff's Girls Villa property. (1) The homes were pumped several times in the course of a year (approximately quarterly) with a TLD device that measures the working level in a structure. (2) At the beginning of the testing a passive track etch detector used to measure working level was left in the structure and retrieved at the end of one year. The results from the two methods of detection were then calculated and analyzed.

The TLD pumping device is regarded as a more accurate method of analyzing the radon daughter working level in a structure. If the two methods are used simultaneously and they differ greatly it is my opinion that more weight be placed on the TLD method than the track etch method of working level determination.

Location 70911- This structure was elevated off the surface of the ground with a crawl space that allowed adequate mixing of soil gas emanating from the ground, and the atmosphere. This type of construction is one of the control technologies recommended by Environmental Protection Agency to reduce radon daughter levels in homes and it can be seen from the low working level value that it is quite effective.

January 11, 1978
Lloyd Godwin
Page Two

Location 70912 - The quaterly average of the TLD pumping device is, while significantly above back ground, still below the levels recommended by the U.S. Environmental Protection Agency and the Florida State Department of Health and Rehabilitative Services for remedial action to be taken.

In the case of the track etch measurement it is much higher than that of the TLD. Since the value obtained from track etch is an upper bound measurement, in other words the working level in a structure falls below the given track etch value. In this case with the TLD working level well below the Department of Health and Rehabilitative Services and Environmental Protection Agency recommendations remedial action would probably not be indicated in this structure.

Locations 70913 and 70914 - It can be easily seen that both the track etch and TLD measurements fall well above the recommended remedial action levels in these two structures. I feel that there is no question that some form of remedial action will be required in these structures to lower working level values.

Locations 70915 and 70916 - The TLD measurements of these two structures fall in a slot between the proposed Department of Health and Rehabilitative Services .029 working level maximum permissible lung dose and the Environmental Protection Agency proposed .02 working level interim guideline published in the Federal Register on June 24, 1976. The track etch results in both locations are significantly higher than either recommended guidelines. Therefore it is expected that some form of remedial action will be necessary to lower average working levels in these structures.

Location 71398 - In this structure there was no track etch placed and only two TLD measurements performed. Both falling below either the Environmental Protection Agency or Department of Health and Rehabilitative Services recommendations. I would like to have more data on this structure before commenting on whether remedial action would be necessary.

Enclosed is a copy of Environmental Protection Agency's control technologies for homes built on reclaimed land.

Sincerely,

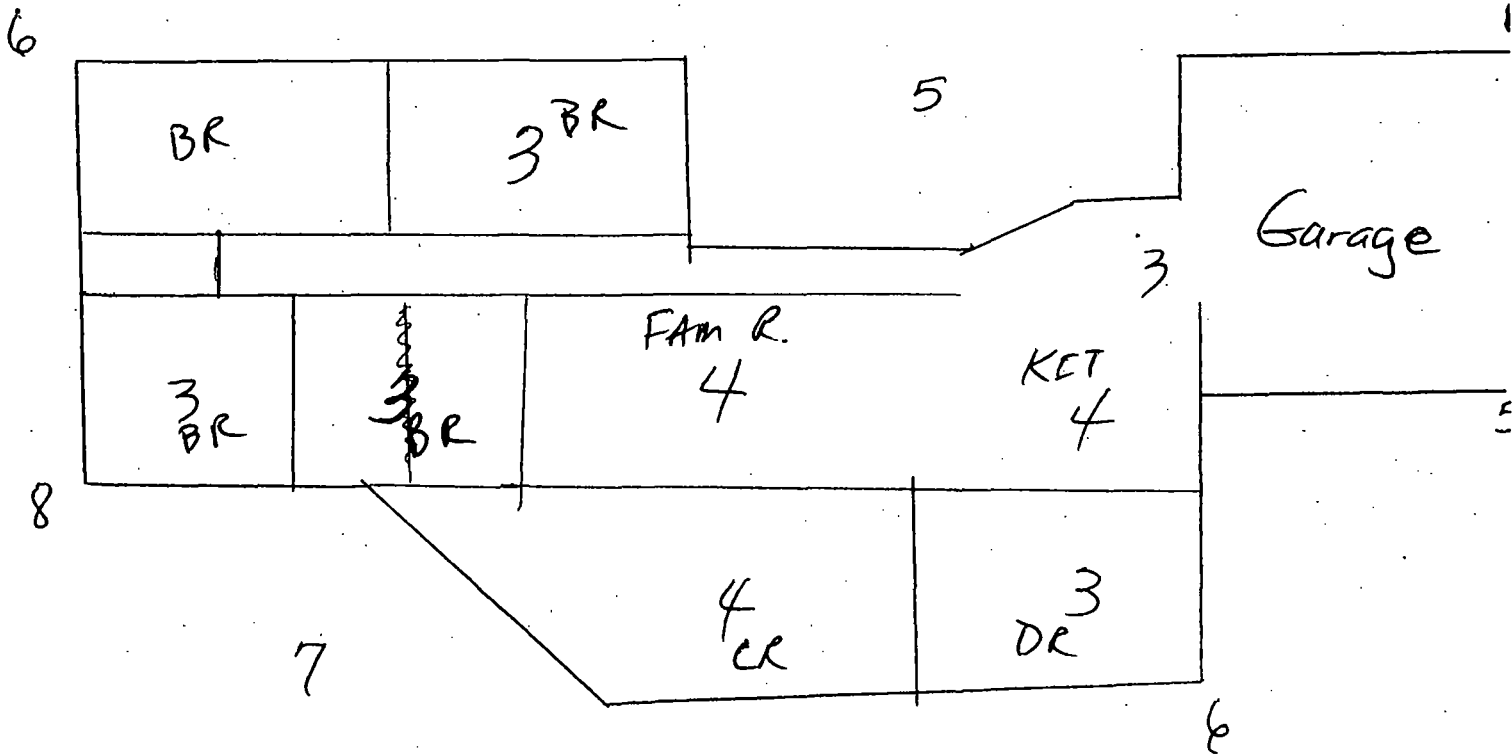
Harlan W. Keaton
Industrial Hygienist II

HWK:rch

POLK COUNTY HEALTH DEPARTMENT

FIELD REPORT ON Staff Residence (Godwin) Girls Villa
 TOWN VISITED Bartow DATE 5/10/77
 OWNER OF PROPERTY Girls Villa PERSON SEEN Whitney & Godwin
 BY WHOM W. Hall & Moore TIME SPENT 30 min
 REASON FOR VISIT Gamma survey & pump installation

REPORT:



Front

EPA Ludlum 3644



Florida Sheriffs

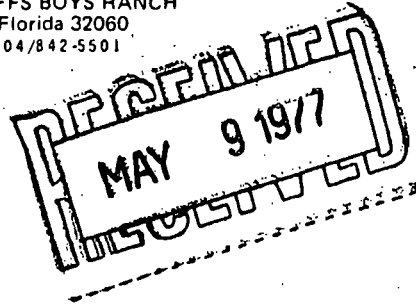
Central Office
FLORIDA SHERIFFS BOYS RANCH
Boys Ranch, Florida 32060
Telephone 904/842-5501

GIRLS VILLA

P. O. Box 1380
Bartow, Florida 33830
Telephone 813/533-0371

HARRY K. WEAVER
Executive Director

ROSS A. WHITNEY
Resident Director



May 6, 1977

Polk County Health Department
Radiological and Occupational Health
107 North Church Street
Mulberry, Florida 33860

Dear Sirs:

A survey is currently being conducted on the property of the Florida Sheriffs Girls in and surrounding all of the main building on the property. However, another building was built after the survey was begun and no testing has been done around or in it. We would ask therefore, that a survey be conducted of the same nature as is being conducted on the others buildings of the property.

We look forward to hearing from you soon. Thank you for your cooperation.

Respectfully yours,

Core samples

Ross A. Whitney
Ross A. Whitney
Resident Director

RAW/blr

cc: Harry K. Weaver

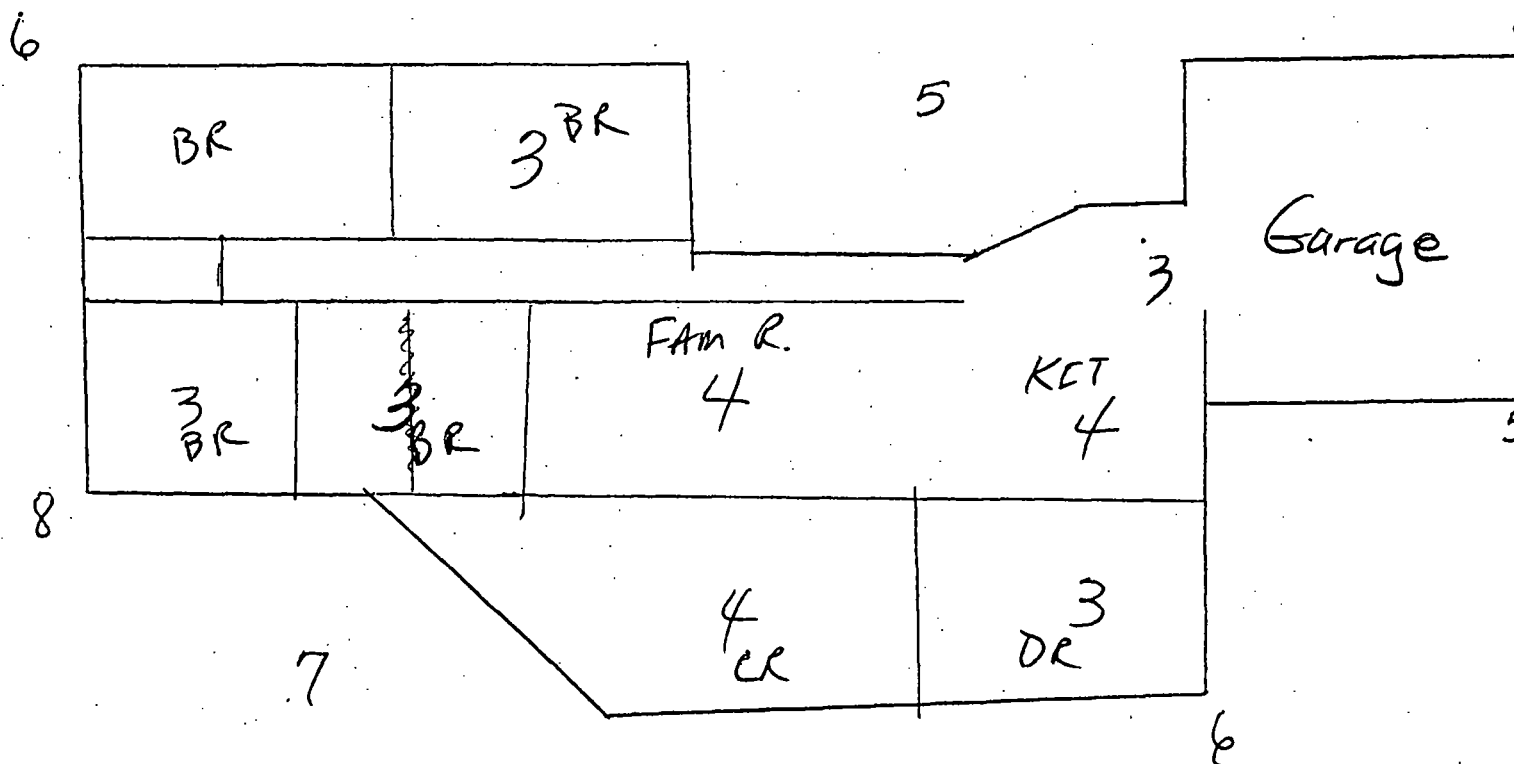
P.S. As of June 3, 1977, I will be leaving Girls Villa and Mr. Lloyd K. Godwin will be assuming the position of Resident Director. Please communicate with him on this matter. Thank you.

CARD 1	LOCATION NUMBER 2 3 4 5 6					CITY 7 8 9 10				COUNTY 11 12 13			STATE 14 15			
8	71398					0160				105			12			
LOCATION CODE	Twmsp Range					Section 1/4 Sec.				Block		Owner Number			Lot	
	3025					03				N8						
	16 17 18 19					20 21 22				224 25		26 27 28			29 30	
	HOG					LOG				HIG		LOCATION HIG				
	31 32 33 34 35					36 37 38 39 40				41 42 43 44 45						
TYPE OF STRUCTURE	NUMBER OF LEVELS					MATERIAL				A/C		0. Bedroom 1. Living Room 2. Kitchen 3. Den-Family Room 4. Dining Room 5. Attached Garage 6. Basement 7. Work shop 8. Other 9. More than one location				
2	1					1				1						
47	48					49				50						
1. Basement						1. Masonry				1. Yes						
2. Slab on grade						2. Non-masonry				2. No						
3. Crawl space										750%						
4. Trailer																
5. Unknown																
FREE PUNCH COMMENT																
	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66															
	67 68 69 70 71 72 73 74 75 76 77 78 79 80															

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EPA Ludlum 364